

ABSTRACT OF THE DISCLOSURE

5 An optical waveguide comprises a silica substrate, a
buffer layer formed on the silica substrate, cores formed
on the buffer layer, and upper cladding layer formed on
the buffer layer, covering the cores. The thermal
expansion coefficients of the buffer layer and upper
cladding layer are set to be substantially equal. As a
result, the stresses in the cores are isotropic,
10 effectively suppressing birefringence.